

2015

Chemistry 205 Organic Chemistry II Spring 2015

Laura B. Sonnichsen

Parkland College, lsonnichsen@parkland.edu

Recommended Citation

Sonnichsen, Laura B., "Chemistry 205 Organic Chemistry II Spring 2015" (2015). *Chemistry Courses*. Paper 39.
http://spark.parkland.edu/chem_course/39

Open access to this Course Materials is brought to you by Parkland College's institutional repository, [SPARK: Scholarship at Parkland](#). For more information, please contact spark@parkland.edu.

SPRING 2015 – CHEMISTRY 205 ORGANIC CHEMISTRY II

- INSTRUCTOR:** Laura B. Sonnichsen
- CONTACT INFORMATION:** Office: L 213
Phone: 217-353-2332 (office)
302-319-2332 (text)
Email: LSonnichsen@parkland.edu
- STUDENT OFFICE HOURS:** In L213: T 10:00 – 11:50 AM, W 1:00 – 1:50 PM, R 10:00 – 10:50 AM
I'm also available by appointment.
- CLASS TIME:** MW 10:00 – 11:15 AM; L-239
- REQUIRED MATERIALS:** Organic Chemistry, J. M. Hornback, 2nd edition (or any other Organic Chemistry Textbook)
Organic Chemistry: A Guided Inquiry, A. Straumanis, 2nd edition
Sapling Learning Homework System (Can purchase access code card at the bookstore or you can purchase directly from Sapling Learning online.)
iClicker
- OPTIONAL MATERIALS:** Organic modeling kit
Student Solutions Manual, Hornback
Student Solutions Manual, Straumanis
- LIBRARY RESERVE ITEMS:** Organic Chemistry, J. M. Hornback, 2nd edition
Student Solutions Manual, Hornback
Student Solutions Manual, Straumanis
- COURSE WEB PAGE:** <http://natsci.parkland.edu/che/205>
- FINAL EXAM DAY & TIMES:** Monday, May 11, 11:00 AM – 1:00 PM; L-239
- COURSE SCHEDULE & CALENDAR:**
The course schedule can be found in Cobra Learning and will be updated as needed. *A calendar of due dates can be found in Cobra Learning.*
- COURSE DESCRIPTION:**
Chemistry 205, Organic Chemistry II, is the second semester of a beginning organic chemistry course that explores the fundamental principles of organic chemistry. Topics to be covered include spectroscopy and explorations of specific functional groups and their reaction mechanisms and synthesis.
- PREREQUISITES:**
Parkland College CHE 203 or equivalent with a grade of **C** or higher.
- COURSE SET-UP:**
This course is going to be set-up very differently from your previous chemistry classes. Class time will be spent on active learning – drawing structures, answering questions, and solving problems. These activities will be done in groups of 3-4 students.

IN-CLASS:

A typical class period will consist of the following:

- Short question and answer session (questions from last class)
- Short Quiz (1-3 questions – will use clickers!)
- Group Work (on ChemActivity – don't forget to bring your workbook to class!)

During the time you are working in groups, I will be walking around the classroom to observe and ask and answer questions. Occasionally, your group work will be interrupted for class discussions. *During this time, you will need to pause your group work!*

OUTSIDE OF CLASS:

Between classes, you will be expected to do the following:

- Finish up the ChemActivity you started in class (**including the exercises**). Answers to the exercises can be found in the solutions manual. Answers to the exercises can be found in the Student Solutions Manual. A copy of this has been placed on reserve in the Library, but you may also purchase it.
- Read the assigned chapters in the textbook that relate to the ChemActivity (given on the course schedule). It is best to read the text *after* you start the ChemActivity and not before.
- Complete the assigned online homework.
- Complete any practice problems assigned, or any additional problems that you feel are necessary. Answers to practice problems can be found in the Study Guide. A copy of this has been placed on reserve in the Library, but you may also purchase it.

ASSESSMENT:

Even though you are working in groups during class time, your learning will be assessed **individually**. There will be daily in-class quizzes, weekly quizzes, three (3) hour exams, and a final exam – all of which must be completed individually. You will also have the choice of completing a project that involves writing and research.

GRADING:

You will be graded based on your performance in the following categories. The grading breakdown is as follows:

<u>Category</u>	<u>Points</u>	
Exams (3)	300 (100 each)	(lowest scoring exam may be replaced with the project)
Quizzes	100 (4 each)	(25 highest scores kept)
Online Homework	56 (4 each)	(14 highest scores kept)
Participation	34 (1 each)	(34 highest scores kept)
Required Participation	10	(all scores kept)
Final Exam	150	
Total	650	

Grade (points accumulated):

A: 585 - 650 B: 520 - 584 C: 442 - 519 D: 377 - 441 F: 0 - 376

This class is NOT curved! You are not competing against your classmates. In order to receive an A in the class, you must achieve a minimum of 582 points.

EXAMS:

There will be three (3) hour exams. Each hour exam will be available in the testing center (M-132) on the date shown in the calendar. There will be no class on exam days, however, I will be available in the classroom during class time for a question and answer session.

The lowest scoring hour exam may be replaced by the project (see below). *There will be NO make-up exams given under any circumstances.*

PROJECT:

There will be a project this semester that will require reading and writing about organic chemistry. Further information on the specific details of the project can be found in the project handout (given out today) and on the course web pages. The project is an optional component of the course, but if you choose to complete it, it may replace your lowest exam score.

QUIZZES:

There will be two types of quizzes in this class – a daily in-class quiz and a weekly quiz.

The in-class quiz will be given daily, in class, over the material from the previous class. These quizzes will be approximately 1-2 questions, and will be given during the first 5 minutes of class. They will be given using iClickers. *There will be no make-up quizzes – if you miss class (or are late), you will miss the quiz.*

The weekly quiz will be given on Cobra Learning in the testing center. *You must bring your Parkland ID to the testing center to take the quiz!* It will be due on Wednesdays and will cover the material from the previous week. It will be available starting on the Friday before the due date. These quizzes will not be timed. You will have 2 attempts (higher score kept). You may earn 20% back on each missed question on the first take of a weekly quiz if you go over the quiz with your instructor **before** you have attempted the second take. You may earn 20% back on each missed question on the second take of a weekly quiz if you go over the quiz with your instructor **before** you have attempted the next week's quiz. *There will be no make-up quizzes!*

Overall, you will have approximately 39 total quizzes (24 in class & 15 weekly quizzes). Your best 25 quiz scores will be kept.

HOMEWORK

One of the best ways to learn material is by practicing problems. Therefore, you will be given a number ways to practice solving problems. There will be two types of homework assignments – graded and ungraded.

The graded homework will be online homework assignments. Each problem is graded on a mostly mastery basis – you may go through the problem as many times as you need, but you will not receive credit for completing the problem until you answer it correctly. You will have a small point deduction on each problem for attempts beyond the first one. We will be using Sapling Learning for the Online Homework. You can purchase an access card from the bookstore, or you can purchase access directly from Sapling Learning. Your best 14 scores will be kept (out of 16).

In addition to the graded homework assignments, there will also be ungraded assignments. These assignments consist of completing the ChemActivities (as assigned in class) and also completing the Exercises associated with the ChemActivities. While these problems are not graded, they are expected, and the information in them will be on quizzes and exams. Answers to the exercises can be found in the Student Solutions Manual. A copy of this has been placed on reserve in the Library, but you may also purchase it.

If you are having difficulty with the problems, do not run to the answers. Look at your notes and the text and talk to your instructor and other students for assistance. Only look at the answers as a last resort.

PARTICIPATION:

This category will include attendance, board participation, weekly review questions, and other assignments. All of these assignments are meant to help you succeed in Organic Chemistry.

Attendance: Attendance will be graded on a weekly basis, since you can't participate if you aren't in class. If you don't participate effectively in your group or fulfill your group role, then you will not earn your attendance grade for the day's class. In addition, your grade will be based on answering iClicker questions in class (completion basis only). **NO EXCUSES!**

Board Participation: Board participation will be graded on a daily basis. After each class, a set of board participation problems will be given in the class powerpoints. Students will have the opportunity to write the answers to the board participation problems on the whiteboard before the start of each class. Each class you participate will be worth 1 point. The first two times you participate will be part of the **required participation**. All additional times will be counted towards your participation grade. If multiple students wish to attempt the same problem, priority will be given to the student with the least prior participation.

Review Questions: Every week (except for the first two weeks), there will be a review questions assignment. The Review Questions (RQ) assignment will cover any CHE 203 material on previous weekly quizzes and will be given on Cobra Learning in the testing center. *You must bring your Parkland ID to the testing center to take the RQ assignment!* You will not have access to the RQ assignment until you have taken the weekly quiz. You may earn 20% back on each missed question on the RQ assignment if you go over the assignment with your instructor **before** you have attempted the next week's RQ assignment.

Other Assignments: There will be occasions throughout the semester where I will give assignments that are outside any of the standard categories. These assignments will be part of the participation category. Many of these assignments will be graded on a completion basis.

There will be no Make-Ups for any of these assignments! Your best 34 participation scores will be kept. There will be a minimum of 45 total assignments.

REQUIRED PARTICIPATION:

In order to succeed in the class, you need to find what study methods are most helpful to you. There are also some administrative assignments that you must complete. Therefore, there are five (5) **required** participation, assessment & homework assignments. Most of these assignments are graded on a completion basis. All scores will be kept. *There will be no Make-Ups for any of these assignments!*

The required participation assignments are: Pre-Assessment, Syllabus Quiz, Homework 1A (How to use the HW system), Board Participation (first 2 classes you participate) and Post-Assessment.

FINAL EXAM

The final exam will consist of two parts. The first part will be required, while the second part will be optional. The first part (required) is the ACS Organic Chemistry Exam. This part is a 120 minute, closed note, multiple choice test covering the entire year (both semesters – CHE 203 & CHE 205) of organic chemistry. This exam will be given during the scheduled final exam time. The second part of the final (optional) is a short answer exam, similar in style to the hour exams. This exam will be an open note, unlimited time, take-home exam covering the second semester (CHE 205) only. This exam can account for up to 50% of your final exam grade. It will be available on the last day of class and will be due by 5:00 PM one week later. **Failure to take the final will result in an F for the course.**

ADDITIONAL PRACTICE PROBLEMS:

For some of the activities, practice problems will be assigned beyond those found in the ChemActivity exercises and the online homework. These practice problems will not be collected. It is your responsibility to keep up with the material and complete the assignments. Answers to instructor questions will be posted in Cobra Learning. Answers to text questions can be found in the "Study Guide" that accompanies the text. Two copies of the "Study Guide" have been placed on reserve in the library.

HELPFUL HINTS:

While organic chemistry has the reputation of being a difficult course, I fully expect that everyone should be able to successfully complete this course. If you are experiencing difficulty with the material, please get help as soon as possible. Help can be found by stopping by during my office hours, by emailing questions to me, by talking to your classmates, and by going to peer tutoring sessions in the Center for Academic Success (CAS). If you can't make my office hours, feel free to drop by outside of my office hours and/or set-up an appointment.

Please do not be shy about getting help as soon as you realize you need it. This material in this course builds upon what you just learned – you will use it again!

Many students find it very useful to study in groups – I *highly* recommend setting up a study group or partner at the beginning of the semester.

I can help make learning easier, but I can't learn the material for you. You need to make sure you come to class, read the manual(s), do the assignments, ask questions, and keep up with deadlines.

If you believe you have a disability for which you may need an academic accommodation (e.g. an alternate testing environment, use of assistive technology or other classroom assistance), please contact: Cathy Robinson, Room U260, [217-353-2082](tel:217-353-2082), crobinson@parkland.edu.

PARKLAND POLICIES & SERVICES:

See the syllabus addendum for more complete information on Parkland Policies & Services.